

SEP 27 2004

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	1
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Complete if Known

Application Number	10/664708
Filing Date	September 17, 2003
First Named Inventor	Michael Allen Bryner
Art Unit	1771
Examiner Name	Unknown
Attorney Docket Number	TK3690USNA

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

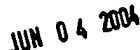
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of

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Application Number	10/664708
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Filing Date	September 17, 2003
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First Named Inventor	Michael Allen Bryner
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Art Unit	1771
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Examiner Name

Attorney Docket Number	TK3690USNA
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁶ (if known)	MM-DD-YYYY		
SRP		WO 2004/026055 A2	04-01-2004	Polymer Group Inc.	
SRP		WO 2004/026167 A2	04-01-2004	Polymer Group, Inc.	
SRP		WO 2004/027135 A2	04-01-2004	Polymer Group, Inc.	

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Date Considered

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Translation is attached.

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Application Number	10/684,708
Filing Date	September 17, 2003
First Named Inventor	Michael Allen Bryner
Art Unit	1771
Examiner Name	Unknown
Attorney Docket Number	TX3690 US NA

Sheet	1	of	1
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

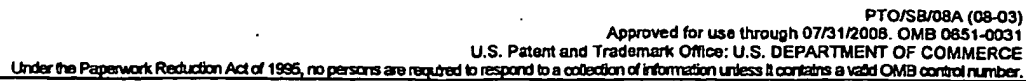
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Sheet	1	of	2
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Sheet

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of

2

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Application Number	10/664,708
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Filing Date	September 17, 2003
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First Named Inventor	MICHAEL ALLEN BRYNER
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Group Art Unit	1771
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Examiner Name

Attorney Docket Number	TK3690 US NA
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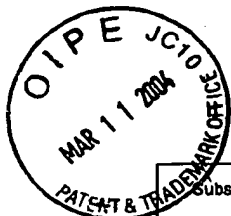
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Substitute for form 1449A/PTO		Complete if Known	
		Application Number	10/664,708
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	September 17, 2003
		First Named Inventor	MICHAEL ALLEN BRYNER
		Group Art Unit	1771
		Examiner Name	
		Attorney Docket Number	TK3890 US NA
Sheet	2	of	2

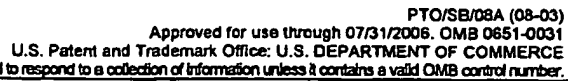
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JRP		KRISTINE GRAHAM, MING OUYANT, TOM RAETHER, TIM GRAFE, BRUCE MCDONALD, PAUL KNAUF, Polymeric Nanofibers in Air Filtration Applications, Presented at the Fifteenth Annual Technical Conference & Expo of the American Filtration & Separations Society, April 9-12, 2002, © 2002 Donaldson Company Inc.	<input type="checkbox"/>
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Examiner Signature		Date Considered	4/21/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/664708
Filing Date	September 17, 2003
First Named Inventor	MICHAEL ALLEN BRYNER
Group Art Unit	1771
Examiner Name	
Attorney Docket Number	TK3690 US NA

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

[illegible]

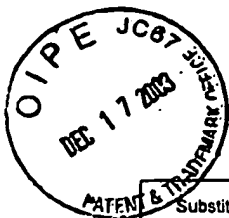
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Date Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 3

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Application Number	10/664708
Filing Date	September 17, 2003
First Named Inventor	MICHAEL ALLEN BRYNER
Group Art Unit	
Examiner Name	
Attorney Docket Number	TK3690USNA

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ²	(if known)			
JRP		US -	2003/0129909 A1	07-10-2003	ZUCKER	
JRP		US -	2003/0106294 A1	06-12-2003	CHUNG ET AL.	
JRP		US -	2002/0117782 A1	08-29-2002	HAYNES ET AL.	
JRP		US -	6,520,425 B1	02-18-2003	RENEKER	
JRP		US -	6,315,806 B1	11-13-2001	TOROBIN ET AL.	
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JRP		US -	6,265,333 B1	07-24-2001	DZENIS ET AL.	
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JRP		US -	6,110,590	08-29-2000	ZARKOOB ET AL.	
JRP		US -	6,106,913	08-22-2000	SCARDINO ET AL.	
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JRP		US -	4,524,036	06-18-1985	GILDING ET AL.	
JRP		US -	4,127,706	11-28-1978	MARTIN ET AL.	
JRP		US -	4,069,026	01-17-1978	SIMM ET AL.	
JRP		US -	4,044,404	08-30-1977	MARTIN ET AL.	
JRP		US -	4,011,067	03-08-1977	CAREY, JR.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
JRP		WO	03/080905 A1	10-02-2003	Nano Technics Co. Ltd.		<input type="checkbox"/>
JRP		WO	02/43951 A2	06-06-2002	Kimberly-Clark Worldwide Inc.		<input type="checkbox"/>
JRP		WO	02/20668 A2, A3	03-14-2002	Donaldson Co. Inc.		<input type="checkbox"/>
JRP		WO	01/26610 A1	04-19-2001	The University of Akron		<input type="checkbox"/>
JRP		WO	01/27365 A1	04-19-2001	The University of Akron		<input type="checkbox"/>
JRP		WO	00/22207 A2, A3	04-20-2000	The University of Akron		<input type="checkbox"/>
JRP		WO	99/18893 A1	04-22-1999	Drexel Univ./Allegheny Health Education and Research Foundation		<input type="checkbox"/>
JRP		CA	2,305,004	10-30-2000	Fibermark Gessner GMBH		<input type="checkbox"/>
JRP		GB	2 104 087 A	03-02-1983	The Univ. of Liverpool/Ethicon Inc.		<input type="checkbox"/>
JRP		GB	1 527 692	10-04-1978	Imperial Chemical Industries Ltd.		
JRP		KR	2002-0093179	12-16-2002	Nano Techniques Co. Ltd.		
JRP		KR	2002-0093178	12-16-2002	Nano Techniques Co. Ltd.		

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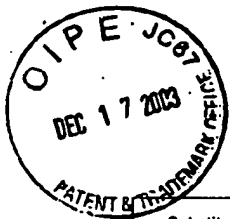
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		Filing Date	September 17, 2003		
		First Named Inventor	MICHAEL ALLEN BRYNER		
		Group Art Unit			
		Examiner Name			
Sheet	2	of	3	Attorney Docket Number	TK3690USNA

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JRP		PETER K. BAUMGARTEN, Electrostatic Spinning of Acrylic Microfibers, Journal of Colloid and Interface Science, May 1971, pp. 71-79, Vol. 38, No. 1	<input type="checkbox"/>
JRP		A. E. ZACHARIADES, R. S. PORTER, JAYESH DOSHI, GOKOL SRINIVASAN, AND DARRELL H. RENEKER, High Modulus Polymers, A Novel Electrospinning Process, Polymer News, 1995, pp. 206-207, Vol. 20, Overseas Publishers Association, Amsterdam B.V., Published under license by Gordon and Breach Science Publishers SA	<input type="checkbox"/>
JRP		RAIMUND JAEGER, MICHEL M. BERGSHOEFF, CRISTINA MARTIN I BATLLE, HOLGER SCHONHERR, G. JULIUS VANCISO, Electrospinning of Ultra-Thin Polymer Fibers, Macromol. Symp. 1998, pp. 141-150, Vol. 127, Huthig & Wepf Verlag, Zug	<input type="checkbox"/>
JRP		H. FONG, I. CHUN, D. H. RENEKER, Beaded nanofibers formed during eletrospinning, Polymer., 1999, pp. 4585-4592, 40, Elsevier Science Ltd.	<input type="checkbox"/>
JRP		SHAHRAZAD ZARKOOB, DARRELL H. RENEKER, R. K. EBY, STEVEN D. HUDSON, DALE ERTLEY, WADE W. ADAMS, Structure and Morphology of Nano Electrospun Silk Fibers, Polymer Preprints, 1998, pp. 244-245, Vol. 39, Issue 2	<input type="checkbox"/>
JRP		X. FANG and D. H. RENEKER, DNA Fibers by Electrospinning, J. Macromol. Sci.-Phys., 1997, pp. 169-173, B36(2), Marcel Dekker, Inc.	<input type="checkbox"/>
JRP		GOKUL SRINIVASAN and DARRELL H. RENEKERT, Structure and Morphology of Small Diameter Electrospun Aramid Fibers, Polymer International, 1995, pp. 195-201, 36, SCI, Great Britain	<input type="checkbox"/>
JRP		FANG, XIAOYAN, Application of electrospinning for polymers, Dissertation Abstracts International, February 1998, p. 4248-B, Vol. 58 No. 8	<input type="checkbox"/>
JRP		JAYESH DOSHI and DARRELL H. RENEKER, Electrospinning Process and Applications of Electrospun Fibers, Journal of Electrostatics, 1995, 151-160, 35, Elsevier Science B.V.	<input type="checkbox"/>
JRP		DR. HEIDI SCHREUDER-GIBSON, US Army Universities Team Up to Develop Electrospun Nanofibers for Clothing Applications, International Fiber Journal, 1998, pp. 49-50, Vol. 13	<input type="checkbox"/>
JRP		PHILLIP GIBSON, DONALD RMIN, CYRUS KENDRICK, and HEIDI SCHREUDER-GIBSON, Humidity-Dependent Air Permeability of Textile Materials, Textile Research Journal, 1999, pp. 311-317, 69(5)	<input type="checkbox"/>

Examiner Signature		Date Considered	4/21/05
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		Filing Date	September 17, 2003		
		First Named Inventor	MICHAEL ALLEN BRYNER		
		Group Art Unit			
		Examiner Name			
Sheet	3	of	3	Attorney Docket Number	TK3690USNA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JRP		W. JOHN G. MC CULLOCH, Ultrafine To Nanofine Fibers Via Spunmelt Processes, Nonwoven World, 2000, pp. 87-92, August-September	<input type="checkbox"/>
JRP		STANLEY E. ROSS, Electrospinning: The Quest for Nanofibers, Fiber Engineering, International Fiber Journal, October 2001, pp. 50-53	<input type="checkbox"/>
JRP		DR. HEIDI SCHREUDER-GIBSON (BILL SMITH), US Army develops fabric membrane to provide multipurpose protection, Technical Textiles International, May 1998, p. 6	<input type="checkbox"/>
JRP		PHILLIP GIBSON, HEIDI SCHREUDER-GIBSON and CHRISTOPHER PENTHENY, Electrospinning Technology: Direct Application of Tailorable Ultrathin Membranes, Journal of Coated Fabrics, July 1998, pp. 63-72, Vol. 28, Technomic Publishing Co., Inc.	<input type="checkbox"/>
JRP		JAYESH DOSHI, Advancing Techniques in Electrospinning Fibers, Section 12, Nanofiber based Nonwoven Composites, its Properties, and Applications, Forbes, July 23, 2001 Issue, Red Herring, July 17, 2001 Issue, Chemical & Engineering News, October 16, 2000 Issue	<input type="checkbox"/>
JRP		MICHEL M. BERGSHOEFF and G. JULIUS VANCISO, Transparent Nanocomposites with Ultrathin, Electrospun Nylon-4,6 Fiber Reinforcement, Advanced Materials, 1999, pp. 1362-1365, 11, No. 16, Wiley-VCH Verlag GmbH, Weinheim	<input type="checkbox"/>
JRP		A. BUER, S. C. UGBOLUE, and S. B. WARNER, Electrospinning and Properties of Some Nanofibers, Textile Research Journal, 2001, pp. 323-328, 71(4)	<input type="checkbox"/>
JRP		Y. A. DZENIS and D. H. RENEKER, Polymer Hybrid Nano/Micro Composites, Proceedings of the American Society for Composites, Ninth Technical Conference, September 1994, pp. 657-665, Technomic Publishing Co. Inc. Lancaster-Basel	<input type="checkbox"/>
JRP		JONG-SANG KIM and DARRELL H. RENEKER, Polybenzimidazole Nanofiber Produced by Electrospinning, Polymer Engineering and Science, May 1999, pp. 849-854, Vol. 39, No. 5	<input type="checkbox"/>
JRP		DARRELL H. RENEKER and IKSOO CHUN, Nanometre diameter fibres of polymer, produced by electrospinning, Nanotechnology, 1996, pp. 216-223, 7, IOP Publishing Ltd., Printed in UK	<input type="checkbox"/>
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